## Declassified in Part - Sanitized Copy Approved for Release 2014/04/29: CIA-RDP78-03330A000800060019-3

TO : The Files	<b>DATE:</b> 30 July 1953 50X1
FROM:	STA
SUBJECT: Test and evaluation of progress report concerning	acsimile Cyphering equipment, 50X1
REFER: Ltr from AD/OC to AD/OCD dtd 21 Janu	nary 1953
1. Reference established the authority conduct of subject tests.	and outlined procedures for the
2. In compliance with provisions contain of R&D was assigned to NSA for training tests on 15 April 1953. Arrangements concern and security requirements in "M" building and Chief, Machine Division, OCI Chief, Security Division, OC.	g in connection with the subject ning operating personnel, space, i 350 26th St., were made with O, and coordinated with STA
3. On 11 June 1953 the writer was informulated had completed his training and that within two weeks. On 18 June, the writer, in OC-S, surveyed the installation areas in "M" that time the following list of names of OCD for cryptographic clearances:	the equipment would be delivered STA company with of STA building and 350 26th Street. At
A. B. C. D. E. F. G. H.	STA
4. On 23 June 1953 the equipment was do armed guard: one terminal to room 11, 350 26 room 1416 "M" building. Arrangements were constallation between the two buildings.  from NSA, and of CIA process of the associated cryptographic aids were delived days later.	oth Street, and one terminal to completed for using the secure cable STA-coroceeded to install the equipment.
5. From 23 June to the present date, the considerable and varied failures. A close leterminals. The lack of facilities offered in lengthened trouble-shooting time. A few of date follow:	og is being maintained for both n side-by-side operation has
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SECURITY INFORMATION

30 July 1953

Subject:	Tes Pro	st and evaluation of Facsimile Cyphering equipment, ogress report concerning (Cont'd)	50X1
	Α.	Low AC line voltages at both terminals. The condition was so poor in room 11, 350 26th Street, that a Sorensen AC regulator had to be inserted.	o
	В.	Random noise level on the privacy line was sufficiently high to necessitate filters.	
	C.	Vacuum tube replace rate high, probably caused by low AC line voltage at both terminals. NSA is operating with approximately 128 volts AC available. AC line voltage in room 11, 350 26th St., was 108 volts, and in 1416 "M" building it varied between 112 and 115 volts.	
	D.	Filament transformer failure, caused by faulty transformer construction. Terminal board insulator tends to carbonize at high temperatures presenting a high resistance short.	
the crypt	cover	of OC-S concerning aphic check-out for the personnel listed in paragraph 3 above. A ring the operating procedures was given by of NSA at eet, Thursday, 30 July, at 10:00.	STAT STAT
the tests informati of the ed in conjun	to to lon a quiproctic tin	respect to future plans for the subject tests, the writer expects continue for at least sixty days during which time sufficient should become available concerning the applications and limitations ment to satisfy NSA and CIA. Besides testing the subject equipment on with OCD Intellofax System, it is planned to test the subject conjunction with the medium speed page size facsimile equipequipment is due to be delivered to the Agency around 1 August.	50X1 50X1
		writer expects to continue to monitor the subject tests and to	
_	_		50X1
of the property of the propert	rojeo unteo t. :	writer requested policy decision on the conduct, status and priority cted tests involving the facsimile equipment. engineers ered to visit the Agency to assist in setting up the facsimile. The engineers involved have been cleared by the Agency for work et. NSA engineers have agreed to assist in coordinating the tests.	50X1
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